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NOTE: The Solicitations and topics listed on this site are copies from the various SBIR agency solicitations and are not necessarily the latest and most up-to-date. For this reason, you should visit the respective agency SBIR sites to read the official version of the solicitations and download the appropriate forms and rules.

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1. A12-100: 3 kW Lightweight Efficient Generator

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The objective of this project is to design, develop, and demonstrate an advanced small, lightweight man portable multi-fueled 3,000 W power unit. A key tenet of this power unit is that it should take advantage of recent advances in small lightweight high speed internal combustion engines which include but are not limited to unmanned aerial vehicles (UAV) engines. DESCRIPTION: The ...

SBIR Army

2. DTRA122-017: 3-D Visualization of Hazard Prediction Plumes

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Investigate and develop a method for taking gridded data from a CBRNE analysis tool (HPAC, IWMDT, JEM) and display the data in a 3-D rendering, capable of being ported to current C2 systems to include ARCGIS and GOGGLE Earth like applications. DESCRIPTION: Current analysis for CBNRE toolsets are displayed as 2-D visualizations at a selected time step. These images are then placed ...

SBIR Defense Threat Reduction Agency

3. MDA12-003: 3G and 4G Communication System Interference Remediation Techniques

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: This research seeks novel algorithms and signal processing techniques that will minimize Aegis-to-3G&4G and 3G&4G-to Aegis interference. Space-time, adaptive and other approaches are sought for broadest utility and generality. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of novel RF modulation, timing and phasing as well as orthogonal and bi-static ...

SBIR Missile Defense Agency

4. 075: A Low Molecular Weight Thyroid-Stimulating Hormone Receptor Agonist for Thyroid Cancer (NIH TT)

Release Date: 08-25-2011Open Date: 08-25-2011Due Date: 11-07-2011Close Date: 11-07-2011

NIDDK investigators have discovered and are evaluating the first potent and efficacious small molecule agonist of the thyroid-stimulating hormone (TSH, thyrotropin) receptor (TSHR) that has potential for clinical application in patients with thyroid cancer. This agonist drug is intended for use in patients for 2-5 days at a time following thyroidectomy and at subsequent intervals after in ...

SBIR Department of Health and Human Services

5. A12-112: A New Generation of Actuators for Robotic Systems

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Design and prototype adaptive actuators for medical robotic systems to improve the robotic capacity needed for future medical robotic applications, such as heavy patient lifting, combat casualty evacuation, dexterous manipulation, and combat casualty care. DESCRIPTION: Background. Today"s robot systems have been evolving from industrial applications into human services. Robots are tr ...

SBIR Army

6. A12-109: A Real-Time, Non-Invasive Monitoring System to Guide Accurate Fluid Resuscitation of Combat Casualties During Pre-Hospital and Transport Medical Care

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an advanced decision-support medical monitor driven by algorithms that provide real-time processing of physiologic signals for the purpose of guiding accurate fluid resuscitation in humans who are hypovolemic due to hemorrhaging. The algorithm will run in real time on a resource constrained portable device. The final device should provide a wireless connection between the patien ...

SBIR Army

7. H7.01: Ablative Thermal Protection Systems

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: ARC Participating Center(s): GRC, JPL, JSC, LaRC OCT Technology Area: TA14 The technologies described below support the goal of developing higher performance ablative TPS materials for higher performance future Exploration missions. Developments are sought for ablative TPS materials and heat shield systems that exhibit maximum robustness, reliability and survivability while maintaini ...

SBIR National Aeronautics and Space Administration

8. g: Accelerator Control and Diagnostics

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop (1) advanced beam diagnostics concepts and devices that provide high speed computer-compatible measurement and monitoring of particle beam intensity, position, emittance, polarization, luminosity, momentum profile, time of arrival, and energy (including such advanced methods as neural networks or expert systems, and techniques that are nondestructive to the ...

SBIR Department of Energy

9. a: Accelerator Development and Modeling of Advanced Concepts

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop new or improved accelerator designs and supporting modeling that can provide efficient acceleration of intense particle beams in either linacs or synchrotrons. Efficient acceleration refers to beam losses of less than 1 W/m. Topics of interest include: (1) linac configurations, either pulsed or CW, capable of delivering >1 MW beams at energies between 1- ...

SBIR Department of Energy

10. a: Accelerator Modeling and Control

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop new or improved computational tools for the design, study, or operation of charged particle beams. Of particular interest is the development of a front-end design for user-friendly interfaces. The modeling challenges addressed must be relevant to present and future BES accelerator facilities. These challenges include, but are not limited to, beam halo gener ...

SBIR Department of Energy

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